| In | idex | of | Claim | S |
|----|------|----|-------|---|
|    |      |    |       |   |

| Application/ | Control | No. |
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09/912,376

Examiner

Beth Van Doren

Applicant(s)/Patent under Reexamination

HIGASHI ET AL.

Art Unit

3623

| √ | Rejected |
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| Cla        | im       | Date         |                |              |          |              |  |          | Claim    |          |    | Date  |          |                |          |          |              |              |                   |          |
|------------|----------|--------------|----------------|--------------|----------|--------------|--|----------|----------|----------|----|-------|----------|----------------|----------|----------|--------------|--------------|-------------------|----------|
| <u> </u>   |          | ┢            | $\overline{}$  | _            | г :      |              | Ť  | Ι        |          | Ι        | 1  | - Oic |          | -              |          | _        | г '          |              | Ť                 | Т        |
| Final      | Original | 9/16/05      | 3/13/06        |              |          |              | !  |          |          |          |    | Final | Original |                |          |          |              |              |                   |          |
|            | 1        | ✓            | √              |              |          |              |  |          |          |          |    |       | 51       |                |          |          |              |              |                   | Γ        |
| $\square$  | 2        | √            | ✓              |              |          | _            | L  | L        | L.       |          | Į  |       | 52       |                |          | L.       | L_           | <u> </u>     | <u> </u>          | L        |
|            | 3        | ✓            | ✓              |              |          | _            |  |          | L        | _        | Į  |       | 53       |                |          | L        | _            | L            |                   | L        |
|            | 4        | ✓            | ✓              | L            | _        |              |  | L        | L        | _        |    |       | 54       |                | _        | ᆫ        | _            | L            |                   | L        |
|            | 5        | ✓            | ✓              |              | _        |              | _  | ╙        | L        | _        | ļ  |       | 55       |                | <u>L</u> |          |              |              |                   | L        |
|            | 6        | ✓            | ✓              |              |          |              | _  | L        |          | L        |    |       | 56       |                | _        |          | <u>L</u> .   |              |                   | L        |
| $\vdash$   | 7        | ✓            | ✓              | _            |          | _            | _  | L.       |          |          | l  |       | 57       |                | _        | L        | ļ            | _            | ᆫ                 | L        |
|            | 8        | √            | ✓              | _            | _        | <u> </u>     | L.   | ļ        | _        | _        | ļ  |       | 58       |                | _        | <u> </u> | _            | _            | L                 | L        |
|            | 9        | V            | V              |              | _        | <u> </u>     | _  | <u> </u> | L        |          |    |       | 59       | _              |          | _        | _            | _            | Ц.                | L        |
|            | 10       | √,           | √              | _            |          | _            | <u> </u>   | ┡        | <u> </u> | <u> </u> | Į. |       | 60       | _              | <u> </u> | ┡        | <u> </u>     | _            |                   | L        |
| <u> </u>   | 11       | <b>√</b>     | <b>√</b>       | -            | _        | <u> </u>     |  | _        |          | <u> </u> | 1  |       | 61       | <u> </u>       | <u> </u> | <u> </u> |              | _            | L                 | ╄        |
| <b></b>    | 12       | Ϋ́           | Ϋ́             | <del> </del> | <u> </u> | <u> </u>     | _  | L        | _        | _        |    |       | 62       |                | ļ        |          | _            | <u> </u>     | _                 | ↓        |
| <u> </u>   | 13       | <b>√</b>     | √<br>√         | ├-           | ⊢        | <del> </del> |  | -        | _        | ├        | ł  |       | 63       |                | _        | _        | <u> </u>     | _            | _                 | ╄        |
|            | 14<br>15 | √,           | √,             | <del> </del> | <u> </u> | H            | -  | <u> </u> |          | ⊢        | ł  |       | 64       | -              | ├        | _        | <u> </u>     | <u> </u>     | _                 | 1        |
| -          | 16       | <b>√</b>     | <b>√</b>       | ⊢            | ├        | ⊢            | _  | _        | -        | ⊢        | l  |       | 65<br>66 | -              |          |          | ┝-           | ⊢            | -                 | ╀        |
|            | 17       | √<br>/       | √              | ┝            | -        | H            | -  | -        | $\vdash$ | ┝        |    |       | 67       |                | $\vdash$ |          | -            | <del> </del> | -                 | ⊢        |
|            | 18       | <b>√</b>     | <b>√</b>       | $\vdash$     | -        | -            | $\vdash$   | <u> </u> | H        | ┝        |    |       | 68       |                | $\vdash$ |          | -            | ├—           | _                 | ╀        |
| -          | 19       | √<br>√       | <b>√</b>       |              | -        | H            | -  | H        | -        | -        |    |       | 69       |                | <u> </u> |          | -            | -            | -                 | ⊢        |
|            | 20       | <b>∀</b>     | <b>√</b>       | $\vdash$     | ├        | H            |  | <u> </u> | H        | ├─       |    |       | 70       | $\vdash$       | ⊢        | -        | -            | ⊢            |                   | ╀        |
| <b>—</b> — | 21       | V            | <b>∨</b>       | $\vdash$     | -        | -            | $\vdash$   |          | $\vdash$ | ┢        | 1  |       | 71       | -              |          | ┝        | -            | ⊢            | ⊢                 | ⊢        |
| $\vdash$   | 22       | √            | <u>√</u>       | _            | -        |              | $\vdash$   | -        | $\vdash$ | ┢┈       |    |       | 72       | $\vdash$       | $\vdash$ | -        | ┝            | -            |                   | ⊢        |
|            | 23       | V            | <b>√</b>       |              | $\vdash$ |              | -  | $\vdash$ |          |          | 1  |       | 73       | $\vdash$       | ┢        | $\vdash$ | $\vdash$     | $\vdash$     | -                 | ╁        |
|            | 24       | V            | √              | $\vdash$     | -        |              | $\vdash$   | ┢        | -        | -        | ł  |       | 74       | _              |          |          | $\vdash$     | ┝            | $\vdash$          | ⊢        |
|            | 25       | Ĭ            | <b>√</b>       | -            | $\vdash$ | $\vdash$     | ┢  | $\vdash$ | Н        | ╌        | l  |       | 75       | -              | -        |          | $\vdash$     | -            | -                 | H        |
|            | 26       | Ť            | Ť              | _            | $\vdash$ | $\vdash$     | <del>                                     </del> | H        | -        |          | l  |       | 76       | _              |          | $\vdash$ | <del> </del> | $\vdash$     | $\vdash$          | ┢        |
|            | 27       |              |                |              |          |              |  | _        | $\vdash$ |          | 1  |       | 77       |                |          | -        | $\vdash$     |              | <del> </del>      | t        |
|            | 28       |              |                |              |          |              | $\vdash$   | $\vdash$ | Г        |          | 1  |       | 78       |                |          |          | T            |              | _                 | t        |
|            | 29       |              |                |              |          |              |  | Г        |          |          | İ  |       | 79       |                |          |          |              |              |                   | T        |
|            | 30       |              |                |              |          |              |  |          |          |          | 1  |       | 80       |                |          |          |              |              |                   | Γ        |
|            | 31       |              |                |              |          |              | Г  |          |          |          | 1  |       | 81       |                |          |          |              |              |                   | Γ        |
|            | 32       |              |                |              |          |              |  |          |          |          |    |       | 82       |                |          |          |              |              |                   | Γ        |
|            | 33       |              |                |              |          |              |  |          |          |          |    |       | 83       |                |          |          |              |              |                   | Г        |
|            | 34       |              |                |              |          |              |  |          |          |          |    |       | 84       |                |          |          |              |              |                   |          |
|            | 35       | L            |                |              |          | L            | L  | _        |          |          |    |       | 85       |                |          |          |              |              |                   |          |
|            | 36       |              | oxed           | <u> </u>     |          | _            |  |          |          |          |    |       | 86       |                |          | <u> </u> |              |              |                   | L        |
|            | 37       | L            |                | L            | L        | Ш            |  |          |          | $\vdash$ |    |       | 87       |                |          | L        |              |              |                   | Ĺ        |
| $\perp$    | 38       | _            |                | <u> </u>     |          | Щ            | <u> </u>   | L.       | L.       | <u> </u> |    |       | 88       | Щ              |          | _        |              |              | oxdot             | L        |
| $\vdash$   | 39       | $oxed{oxed}$ |                | <u> </u>     | L        |              | _  |          |          | <u> </u> |    |       | 89       | Ш              | L        |          | _            | <u> </u>     |                   | L        |
| $\vdash$   | 40       | <u> </u>     |                |              | L_       |              | _  |          | _        | <u> </u> |    |       | 90       | Ш              |          | L.,      | <u> </u>     |              | $ldsymbol{f eta}$ | L        |
| $\vdash$   | 41       | Ь.           |                | <u> </u>     | <u> </u> | $\vdash$     | L  |          | L.,      | <u> </u> |    |       | 91       | Щ              | Щ        | Ш        | <u> </u>     | <u> </u>     | <u> </u>          | L        |
| $\vdash$   | 42       | Ш            | _              | <u> </u>     | <u> </u> | <u> </u>     | $\vdash$   | Н        | Щ        | <u> </u> |    |       | 92       |                | <u> </u> | L.,      | <u> </u>     | ⊢            | <u> </u>          | L        |
| $\vdash$   | 43       | Н            |                | <u> </u>     | Ь        | <u> </u>     | $\vdash$   |          |          | <u> </u> |    |       | 93       | $\vdash$       | $\vdash$ | <u> </u> | ⊢            | $\vdash$     | <u> </u>          | $\vdash$ |
| $\vdash$   | 44       | Н            | $\vdash$       | Н            | <u> </u> | $\vdash$     | <b> </b> -                                       | <u> </u> | $\vdash$ | ├-       |    |       | 94       | Н              | $\vdash$ | <u> </u> | ├            | -            | _                 | L        |
| $\vdash$   | 45<br>46 | Щ            | -              | <u> </u>     | H        | _            | $\vdash$   | $\vdash$ | $\vdash$ | <u> </u> |    |       | 95       |                |          | $\vdash$ | <u> </u>     | $\vdash$     | <u> </u>          | L        |
| $\vdash$   | 47       | <b></b>      | $\vdash$       | H            | -        |              | Ь.   |          | $\vdash$ | <u> </u> |    |       | 96<br>97 | $\vdash$       | $\vdash$ | $\vdash$ | <del> </del> |              | -                 | $\vdash$ |
| $\vdash$   | 48       |              | $\vdash\vdash$ | <del> </del> |          | -            |  | -        | H        | <u> </u> |    |       | 98       | $\vdash\vdash$ | <u> </u> | $\vdash$ | -            | $\vdash$     | ⊢                 | ⊢        |
| -          | 49       | Н            |                |              | $\vdash$ |              | Н  | -        | Н        | ⊢        |    |       | 98       | $\vdash$       | $\vdash$ | Н        | $\vdash$     | -            | $\vdash$          | $\vdash$ |
| +          | 50       | $\vdash$     |                |              | -        | H            | -  | $\vdash$ | $\vdash$ | H        |    |       | 100      | $\vdash$       |          | -        | -            | -            | -                 | $\vdash$ |
| ш          | -50      | ш            |                |              |          | ш            | ш  |          |          |          |    |       | 100      | ш              | ш        |          | L            | Щ            |                   | _        |

| Cla      | aim       |          |          | _        | [        | Date     | e_       |          |          |          |
|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Final    | Original  |          |          |          |          |          |          |          |          |          |
|          | 51        |          |          |          | Г        |          |          |          |          |          |
|          | 52        |          |          | Г        |          |          | Г        |          | П        |          |
|          | 53        |          |          |          |          |          | Г        |          | Г        |          |
|          | 54        |          |          |          |          |          |          |          | Г        |          |
|          | 55        |          |          | Г        |          |          |          |          | Г        |          |
|          | 56        |          |          |          |          |          |          |          |          |          |
|          | 57        |          |          |          |          |          |          |          |          |          |
|          | 58        |          |          |          |          |          |          |          |          |          |
|          | 59        |          |          |          |          |          |          |          |          |          |
|          | 60        |          |          |          |          |          |          |          |          |          |
|          | 61        |          |          |          |          |          |          |          |          |          |
|          | 62        |          |          |          |          |          |          |          |          |          |
|          | 63        |          |          |          |          |          |          |          |          |          |
|          | 64        |          |          |          |          |          |          |          |          |          |
|          | 65        |          |          |          |          |          |          |          |          |          |
|          | 66        |          |          |          |          |          |          |          |          |          |
|          | 67        | L        |          |          |          |          |          |          |          |          |
|          | 68        |          |          |          |          |          |          |          |          |          |
|          | 69        |          |          |          |          |          |          |          |          |          |
|          | 70        |          |          |          |          |          |          |          |          |          |
|          | 71        |          |          |          |          |          |          |          |          |          |
|          | 72<br>73  |          |          |          |          |          |          |          |          |          |
|          | 73        |          |          |          |          |          |          |          |          |          |
|          | 74        |          |          |          |          |          |          |          |          |          |
|          | 74<br>75  | <u> </u> |          |          | <u> </u> |          |          |          |          |          |
|          | 76        |          |          | L        | L        |          | L        |          | <u> </u> | L        |
|          | 77<br>78  |          |          | L_       | _        |          |          |          | <u> </u> |          |
|          | 78        |          |          |          | <u> </u> |          |          |          | L_       |          |
|          | 79        | L        |          |          |          |          |          |          |          | L        |
|          | 80        |          |          |          |          |          |          |          |          | <u> </u> |
|          | 81        |          |          |          |          |          |          | <u> </u> | <u> </u> | _        |
|          | 82        |          |          | <u> </u> |          |          | ļ        |          |          | L.       |
|          | 83        |          |          |          |          |          |          | L.       |          | L        |
|          | 84        | _        |          | ļ        | _        | _        | _        | L        | _        |          |
| <u> </u> | 85        |          | _        |          | L        | _        | _        | <u> </u> | _        |          |
|          | 86        | _        |          | L.       | _        |          | ᆫ        |          | _        | L_       |
|          | 87        |          |          | <u> </u> | _        |          | _        |          | _        | L        |
|          | 88        |          | _        | <u> </u> | _        |          |          | <u> </u> | _        |          |
|          | 89        | _        | _        |          |          |          | <u> </u> | _        |          | _        |
|          | 90        |          |          | ļ        |          |          | ╙        | <u> </u> | <u> </u> | _        |
|          | 91        | _        | _        |          | <u> </u> |          | <u> </u> |          | _        | _        |
|          | 92        | <u> </u> | <u> </u> | L.,      | l—       | <u> </u> | <u> </u> |          | <u> </u> | <u> </u> |
| <u> </u> | 93        | <u> </u> | $\vdash$ | <u> </u> | Щ        | <u> </u> | <u> </u> | $\vdash$ | <u> </u> | <u> </u> |
|          | 94        | H        | $\vdash$ | <b> </b> | <u> </u> | -        | H        | L.       | <u> </u> | <u> </u> |
| <b></b>  | 95        | ļ        | <b> </b> | $\vdash$ | <u> </u> | _        | <u> </u> | <u> </u> | <u> </u> | <u> </u> |
| <u> </u> | 96        | -        |          | $\vdash$ | <u> </u> |          | $\vdash$ | $\vdash$ | <u> </u> | <u> </u> |
| <u> </u> | 97        | <u> </u> | ļ        | $\vdash$ | <u> </u> | <u> </u> | $\vdash$ | $\vdash$ | Н        | $\vdash$ |
| $\vdash$ | 98        | -        | $\vdash$ | Ш        | Н        | <u> </u> | $\vdash$ | <u> </u> | <u> </u> | $\vdash$ |
| <u> </u> | 99<br>100 | $\vdash$ | H        | <u> </u> | $\vdash$ | <u> </u> | $\vdash$ | Н        | Ь.       | ļ        |
|          | เวนป      | 1        |          | 1        |          |          |          |          | 1        |          |

| Cla   | Date              |          |              |  |              |          |              |          |          |          |  |
|-------|-------------------|----------|--------------|--|--------------|----------|--------------|----------|----------|----------|--|
|       |                   |          |              | _  | Γ.           | <u> </u> | Ē            | Γ        | Γ.       | П        |  |
| Final | Original          |          |              |  |              |          |              |          |          |          |  |
|       | 101<br>102<br>103 |          |              |  |              |          |              |          |          |          |  |
|       | 102               |          | _            | _  | _            |          | _            |          |          | Щ        |  |
|       | 103               | <u> </u> | ļ            | <u> </u>   | <u> </u>     | <u> </u> | <u> </u>     | _        | <u> </u> | Ш        |  |
|       | 104               | _        |              | _  | <u> </u>     | <u> </u> | ├_           | <u> </u> | ļ        | Щ        |  |
|       | 105<br>106        | <u> </u> | <del> </del> | ├  | ├—           | ┝        | ├-           | ├        |          | $\vdash$ |  |
|       | 107               | -        |              |  | _            | ┝        | ┞            | ├        |          | $\vdash$ |  |
|       | 108               | $\vdash$ | $\vdash$     | $\vdash$   | -            | ┢        | ┝            | ┝        | ┝        | Н        |  |
|       | 109               | ┢        | ╁─           | ┢  | $\vdash$     | $\vdash$ | ┝            | -        | ├-       | Н        |  |
|       | 110               | -        | $\vdash$     | <del>                                     </del> | $\vdash$     | ┢        | $\vdash$     | ┝╌       | $\vdash$ | Н        |  |
|       | 111<br>112<br>113 | -        |              | $\vdash$   | $\vdash$     |          | <del> </del> | $\vdash$ | -        | Н        |  |
|       | 112               |          | _            |  |              |          | T            |          | $\vdash$ | П        |  |
|       | 113               |          |              | Γ  | Г            |          |              |          | Г        | П        |  |
|       | 114               |          |              |  |              |          |              |          |          |          |  |
|       | 114<br>115        |          |              |  |              |          |              |          |          |          |  |
|       | 116<br>117        |          |              |  |              |          |              |          |          |          |  |
|       | 117               | L        |              |  |              |          |              |          |          |          |  |
|       | 118               | <u> </u> | ļ            | L_   | L            | <u> </u> | L_           |          |          | Ш        |  |
|       | 119               | <u> </u> | <u> </u>     | ļ  | <u> </u>     | <u>_</u> | <u> </u>     |          |          | Щ        |  |
|       | 120               | _        | _            | L.   | ┡            |          | _            | L        |          | Щ        |  |
|       | 121               | _        | <u> </u>     | ├  | ⊢            | L        |              | _        | _        | Н        |  |
|       | 122<br>123        | <u> </u> | -            | <u> </u>   | -            | -        | <u> </u>     | <u> </u> | ⊢        | Н        |  |
|       | 123               |          | _            | ├  | ⊢            | <u> </u> | -            | <u> </u> |          | Н        |  |
|       | 124               | <u> </u> | -            | ⊢  | ├            | ⊢        | -            | ├        | _        | Н        |  |
|       | 125<br>126        | $\vdash$ | ┢            | ├  | $\vdash$     | $\vdash$ | -            | ⊢        |          | Н        |  |
|       | 127               | -        | -            | ┢  | H            | ┢        | $\vdash$     | $\vdash$ |          | Н        |  |
|       | 128               | _        | _            | $\vdash$   | <u> </u>     | <u> </u> |              |          |          | Н        |  |
|       | 128<br>129        |          |              |  |              | _        |              | _        | _        | П        |  |
|       | 130               |          | _            |  | <u> </u>     | _        |              |          |          | П        |  |
|       | 131               |          |              |  |              |          |              |          |          | П        |  |
|       | 132               |          |              |  |              |          |              |          |          |          |  |
|       | 133               |          |              |  |              |          |              |          |          |          |  |
|       | 134               |          |              |  | L.           | L_       |              |          |          | Ш        |  |
|       | 135               |          |              | ļ  | _            | _        | _            | Ш        | _        | Ц        |  |
|       | 136               |          | <u> </u>     | <u> </u>   | ļ            | <u> </u> | <u> </u>     | <u> </u> | _        | Н        |  |
|       | 137<br>138        |          | _            | ⊢  | _            | -        | <u> </u>     | <u> </u> | _        | Н        |  |
|       | 139               |          | ┝            | -  |              | -        | _            | -        |          | Н        |  |
|       | 140               |          | -            | -  | <del> </del> | -        | ⊢            | -        |          | Н        |  |
|       | 141               | _        | -            | <del> </del>                                     | $\vdash$     | ⊢        | $\vdash$     | <u> </u> | -        | Н        |  |
|       | 142               |          | $\vdash$     | $\vdash$   | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$ | Н        |  |
|       | 143               | Г        | $\vdash$     | Н  |              |          |              | $\vdash$ | Н        | Н        |  |
|       | 144               |          | $\vdash$     | -  | Т            |          |              |          | Г        | $\vdash$ |  |
|       | 145               |          | Г            | Ι  | П            |          |              |          |          | H        |  |
|       | 146               |          |              |  |              |          |              |          |          |          |  |
|       | 147               |          |              |  |              |          |              |          |          |          |  |
|       | 148               |          |              |  |              |          |              |          |          |          |  |
|       | 149               |          |              |  |              |          |              |          |          |          |  |
|       | 150               |          |              |  |              |          |              |          |          |          |  |